

KORDZAKHIA, M.O.; DZHAVAKHISHVILI, Sh.I.

Evaporation in Georgia. Trudy Inst. geog. AN Gruz. SSR 17:
161-168 '62. (MIRA 16:7)

(Georgia—Evaporation)

KORDZAKHIYA, M.O.; KAVKASIDZE, R.P.

Landscape and climatic classification of the health resorts
of the Georgian S.S.R. Sbor. trud. Gos.nauch.-issl. inst.
kur. i fizioter. 26:127-134 '63. (MIRA 17:5)

KORDZAKHIYA, M.O.; KAVKASIDZE, R.P.; GONGLADZE, N.Sh.

Climate and microclimate of the Mendzhi health resort. Sbor.
trud. Gos. nauch. issl. inst. kur. i fizioter. 26:123-126 '63.
(MIRA 17:5)

KORDZASHIYA, M.O.; DZHAVAKHISHVILI, Sh.I.

Vertical temperature gradients on the southern slope of
the Caucasus Range within the limits of Georgia. Trudy
Inst. geog. AN Gruz. SSR 18:195-197 '64. (MIRA 17:6)

KORDZAKHIYA, M.O.; DZHAVAKHISHVILI, Sh.I.

Climate of Abkhazia. Trudy Inst. geog. AN Gruz. SSR 14:123-142
'61. (MIRA 18:5)

KAKABADZE, V.M.; KORDZAKHIYA, N.M.

Oxygen removal from gases by means of various manganese containing ores. Trudy GPI [Gruz.] no.5:73-83 '62.

(MIRA 17:10)

CHAG NAVA, V.I. ROZENTHAL, N.M.

Purification of a nitrogen-hydrogen mixture by removing carbon monoxide. Soob. AN Gruz. SSR 36 no.3:603-609 D '64.

(MIRA 18:3)

I. Institut neorganicheskoy khimii i elektrokhemii AN GruzSSR i Gruzinskiy politekhnicheskiy institut im. V.I. Lenina. Submitted April 10, 1964.

KAKABADZE, V.M.; CHAGUNAVA, V.T.; KORDZAKHIYA, N.M.

Removing an admixture of oxygen from gases by using a complex
oxide ore. Soob.AN Gruz.SSR 24 no.4:401-406 Ap '60.

(MIRA 13:7)

1. Gruzinskiy politekhnicheskii institut im. V.I.Lenina. Pred-
stavleno akademikom R.I.Agladze.

(Gases--Purification)

(Manganese oxide)

L 29908-66 EWT(1)/FCC GW

ACC NR: AT6006488

SOURCE CODE: UR/3061/65/000/018/0037/0057

AUTHOR: Kordzakhiya, R. S.

23
B+1

ORG: none

TITLE: Climate of Svanetia

SOURCE: Tiflis. Zakavkazskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut. Trudy. no. 18(24), 1965. Voprosy gidrometeorologii (Problems in hydrometeorology), 37-57

TOPIC TAGS: climate condition, climatology, atmospheric circulation, atmospheric precipitation

ABSTRACT: Physico-geographic conditions, solar radiation, and meteorological conditions observed during the last 25 years at meteorological stations in Svanetia were investigated. The meteorological factors under discussion are atmospheric circulation processes, air temperature, atmospheric precipitation, snow cover, air humidity, wind, the coefficient of moistening, mists, thunderstorms, and hail. The data show that, Svanetia, inspite of its relatively small area, shows considerable meteorological variation from west to east, especially in air temperatures as a function of altitude. In accordance with the classification developed by V. P. Keppen and the meteorological observations analyzed by the author, Svanetia can be subdivided into the following cli-

Card 1/2

KORDZAKHIYA, T. P., KUNCHULIYA, V. O., PRUIDZE, T. V., TSULEYSKIRI, G. V., PICHKHAYA, T. P.,
ASATIANI, V. S., ANSAHVILI, A. Ts., AGEYEVA, A. K., KEKELIDZE, O. V., KITIYA, T. D.,
(USSR).

The Effect of the Mountainous Climate on Biochemical Aspects of Human Blood.

report presented at the 5th Int'l.
Biochemistry Congress, Moscow, 10-16 Aug. 1961.

KORDZAKHIYA, T. P., Cand Med Sci -- (diss) "Materials on the evaluation of the effectiveness of treatment of pulmonary tuberculosis." Tbilisi, 1960. 26 pp; (Tbilisi State Medical Inst); 200 copies; free; (KL, 28-60, 165)

KORDZINSKI, C.

Influence of detonation on the exploitation of internal-combustion engines. p. 73. Vol. 10, no. 3, Mar. 1955. MOTORYZACJA. Warszawa.

SOURCE: East European Accessions List (EEAL), IC, Vol. 15, no. 3, Mar. 1955.

KORDZINSKI, C.

Technological progress in servicing automobiles. P. 229
MOTORYZACJA (Ministerstwo Transportu Drogowego i Lotniczego)
Warszawa Vol. 10, no. 8, August 1955

SOURCE: EEAL IC Vol. 5, no. 7, July 1956

KORZYMNI, G.

New High-compression engines for passenger cars. p. 314

MOTORYZACJA (Ministerstwo Transportu Drogowego i Lotniczego)
Vol. 10, No. 10, October 1955

Warszawa, Poland

So. East European Accessions List

Vol. 5, No. 1

Jan. 1956

S/262/62/001/001/006/010
I014/1252

AUTHOR: Kordziński, Czesław

TITLE: Conversion of power and fuel consumption of internal combustion engines with atmospheric air intake to ordinary atmospheric conditions

PERIODICAL: Referativnyy zhurnal, Silovyye Ustanovki, no. 1, 1962, 74, abstract 42.1.390 ("Technomotoryz", 1961, no. 4, 127-132, no. 5, 160-162) (Polish)

TEXT: The derivation and analysis are given of the principal formulas used for the conversion to ordinary atmospheric conditions for forced or compressive ignition engines with atmospheric air intake.

[Abstracter's note: Complete translation.]

Card 1/1

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824610017-2

KORDZINSKI, Czesław, docent dr. ing.

Combustion and formation process of fuel and air mixture in a two-cycle engine with injection and spark ignition.
Constr mas 15 no.7:481-486 J1'63.

1. Catedra de motare cu ardere interna, Scoala politehnica din Gracovia.

KORDZINSKI, Czeslaw, dr inz.

Problems of economical lubrication of two-stroke spark
ignition engines. Techn motor 12 no. 6: 161-166 Je '62.

1. Politechnika, Krakow.

KORDZINSKI, W., mgr inz.

With reference to Prof. Wl. Gundlach's paper on "Research work on gas turbine engines." Techn lotn 18 no.8:210-211 Ag '63.

KORDZINSKI, Walerian, mgr inż.

Relations between various definitions of the efficiency of turbine engine components. Inst. lotn prace no. 20:10-19 '63.

KORDZINSKI, Walerian, mgr inz.

Basic properties of two-spool compressors for aircraft gas turbine engines. Techn lotn 18 no.10:269-277 0 '63.

KORDZINSKI, Walerian, mgr inz.

Approximate methods of computing the characteristics of axial compressors. Inst lotn prace no.19:29-40 '63.

CZECHOSLOVAKIA

KOREC, R.: Department of Experimental Pathology of Medical Faculty of University P.J. Safaryk (Ustav experimentalnej patologic Lekarskej fakulty Univerzity P.J. Safaryka,) Kosice.

"The Pathological Physiology Curriculum."

Prague, Ceskoslovenska Fysiologie, Vol 12, No 4, July 1963; pp 291-292.

Abstract: Principal criticisms: 1. pathophysiology is taught only 60 lecture and 84 lab hours and pathology 80/112 whereas anatomy and histology still 160/240 and 80/96 respectively; basic sciences in general are neglected; 2. "bunching" of exams from many subjects all at once; 3. lack of coordination as between internal medicine, surgery and obstetrics; 4. reorganization of tests is necessary in Latin, Russian, political economics, nuclear medicine, physical medicine and public health; 5. shift pathophysiology to 7th semester at end of which place exam to precede that in pharmacology.

KORE, A. J.

ZAKHAROV, I.I.; KORE, A.J.

Surgery of intrathoracic goiter. Khirurgia no.2:70-71 P '54.
(MLRA 7:5)

1. Iz Pyarnskoy gorodskoy bol'nitsy Estonskoy SSR (glavnyy vrach
Matus). (Goiter)

KORDZINSKI, Walerian, mgr inz.

Problem of representing the results of tests carried out on
an individual prototype turbine engine. Techn lotn 17
no.8:231-235 Ag '62.

SHADIKYAN, V.S.; KORE, I.D.; TSURKAN, I.G.; KOGAN, M.S.

Improved lubricant for roller bearings used in railroad rolling
stock. Biul.tekh.-ekon.inform. no.11:70-71 '59.
(MIRA 13:4)

(Lubrication and lubricants)

SHADIKYAN, V.S., kand.tekhn.nauk; KORE, I.D., kand.khim.nauk; KOGAN,
M.S., inzh.; TSURKAN, I.G., inzh.

Resistance of lubricating greases to the rotation of railroad
axle-box roller bearings. Vest.TSNII MPS 18 no.6:11-15
S '59. (MIRA 13:2)

(Lubrication and lubricants)

SHADIKYAN, V.S., kand.tekhn.nauk; KORE, I.D., kand.khim.nauk; TSURKAN,
I.G., inzh.; KOGAN, M.S., inzh.

Investigating lubricating greases for axle box roller bearings for rolling stock. Trudy TSNII MPS no.180:4-42 '59.

(MIRA 13:4)

(Lubrication and lubricants)

(Railroads--Rolling stock)

KORE, I.D.; Prinsipal'nyy uchastiyets -- SHADIKYAN, V.S.; TSURKAN, I.B.

Results of laboratory and operational testing of experimental lubricants on bearings of the rolling stock in railroad transportation. (MIRA 14:8)
Proizv. smaz. mat. no.6/8:126-132 '61.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhnogo transporta Ministerstva putey soobshcheniya.
(Lubrication and lubricants--Testing) (Railroads--Rolling stock)

117 AND 2ND COLUMNS										118 AND 3TH COLUMNS									
<p>CA</p> <p>PROCESSES AND PROPERTIES. <i>Levy, J. Applied Chem. (U. S. S. R.)</i> 12, 1457 (1959) (in French, 1461) (1959).—The ketone was synthesized as follows: (1) Enanthal → heptyl alc. (in the presence of pyrophoric Ni) → heptyl bromide. (2) Starch → levulinic acid → Et levulinate. (3) Condensation of the heptyl bromide with the Et levulinate. (4) Cyclization of the resulting ester of the HO acid (or more correctly of the mixt. of the ester of the HO acid with the ester of the unsatd. methylundecylic acid and the corresponding lactone). Heptyl alc. was prepd. by placing in a round bottomed flask 100 g. of 92% enanthal, 300 ml. of 96% EtOH and 100 g. pyrophoric Ni. The hydrogenation was carried out at 55° and the yield was 98%. γ-Methylundecalactone, $\text{Me}(\text{CH}_2)_5\text{CMe}(\text{CH}_2)_4\text{CO}_2$, was prepd. by adding $\text{C}_6\text{H}_5\text{MgBr}$ to 50 g. of Et levulinate in 2 vols. of abs. ether gradually and with cooling. The resulting upper ether layer was vacuum-distd. (3 mm.) after standing overnight. A small Wurtz flask was charged with 30 g. of the lactone and 15 g. of H_2 (0.17). Heating was carried out at 120 mm. and the temp. of the vapors was 150–160°. The product after 2 vacuum distns. b, 119–21°, n_D^{20} 1.4702, d_4^{20} 0.9086; carbazone, m. 164–5°. 10 references. A. A. B.</p>																			
<p>450.55A METALLURGICAL LITERATURE CLASSIFICATION</p>																			

KORE, S. I.

KORE, S. I. - "Derivation of Polyisopropylbenzenes and Homologous Alkylbenzyl Alcohols." Sub 26 Jun 52, All-Union Sci Res Inst of Synthetic and Natural Essential Oils. (Dissertation for the Degree of Candidate in Chemical Sciences).

SO: Vechernaya Moskva January-December 1952

Chemical Abst.
Vol. 48
Apr. 10, 1954
Organic Chemistry

4
3
Some 9-substituted derivatives of acridine. G. M. Rosolapoff and S. A. Korr (S. Orlonkine All-Union Chem. Pharm. Inst., Moscow), *Zhur. Obshch. Khim.* 23, 848-74 (1953).
To 0.5 cal. EtOH, 18 ml. concd. NH₄OH, and 3 ml. 10% AgNO₃ was added over 3 hrs. at 70-8° 3 g. powd. 9-diazoacetylacridine, yielding on cooling 80% 9-acridineacetamide (I), decomp. 260-1° (from EtOH), which can be purified by reprecip. from cold acids with alkalis. Refluxed 1.5 hrs. with 20% HCl, it gave 80% 9-methylacridine, m. 118-10° (from dil. EtOH); if the hydrolysis is run with 25% KOH in MeOH 10 hrs. at reflux, only 22% 9-methylacridine is formed, the rest of the product being 9-acridanone, m. 353-4°. The amide (1 g.) in 12 ml. 96% AcOH and 1.8 ml. 91% H₂SO₄, heated to 70°, treated dropwise with 2 ml. 20% NaNO₃, warmed 5 min., and quenched in H₂O gave after addn. of dil. KOH an unstated yield of 9-methylacridine. If (0.85 g.) in 12 ml. 96% AcOH and 1.8 ml. 91% H₂SO₄ treated at room temp. with 2.4 g. powd. NaNO₃, warmed 2 hrs., to 75-80° and quenched in 100 ml. H₂O gave an amorphous ppt., which was taken up in Na₂CO₃, filtered, and acidified with dil. HCl, yielding 0.45 g. 9-acridineacetic acid, decomp. 279-81° (crude), decomp. 283-4° (from AcOH). With SOCl₂ in C₆H₆ it yields the acyl chloride-HCl, decomp. 214-15°, which with NH₄OH gave the amide, decomp. 263-4° (from EtOH). 9-(Diazocetyl)-little Cu(OAc)₂ and boiled briefly, after all N evolution stopped, gave 0.65 g. 9-acridinyl acetylacrylate, m. 183-4° (from EtOH). 9-Acridinyl bromomethyl ketone, m. 183-4° in dry C₆H₆ and 3.9 ml. piperidine kept in the dark 6 hrs., yielded a ppt., which, extd. with H₂O, left 0.1 g. acridanone (the water-sol. portion being piperidine-HCl). The org. layer, evapd. and treated with MeOH gave 0.85 g. greenish solid, m. 127-30° (decomp.), which yields 9-acridanone with MeOH or C₆H₆. The crude product appeared to be essentially 9-acridinyl piperidinomethyl ketone. The MeOH soln. yielded 9-acridinyl Me ketone, isolated as the chloroplatinate, decomp. 244-5°, and picrate, decomp. 245-6°; with Et₃NH gave an unknown substance, m. 192-5° (decomp.), some 9-acridanone, and 9-acridinyl Me ketone, isolated as the picrate.
G. M. Rosolapoff

Orientation of the *tert*-butyl group upon its introduction into an aromatic derivative. *Zhur. Obshch. Khim.* 23, 1875 (1953); cf. Smith and Perry, *C.A.* 33, 6257. The conception about the predominant influence of the nature of the catalyst employed in alkylations of substituted benzenes is not supported in the cases of introduction of CMs group into C₆H₆ or *m*-xylene; these tend to form sym. structures in all instances. Treatment of *m*-xylene with *iso*-BuOH in the presence of H₂SO₄ gave 40% 3,5-Me₂C₆H₃CM₃, b. 204-4.5°, *n*_D²⁰ 1.4662, *d*₄²⁰ 0.8860; *Trimero deriv.*, m. 111-12°, benzyl alc. derived from this, m. 98-9°. No other isomer was found in the alkylation mixt. The hydrocarbon suffered no change on being heated with AlCl₃ 3.5 hrs. at 100°. Chloromethylation with formalin and concd. HCl in the presence of H₂SO₄ at 50° gave 36.3% 2,6,4-Me₃(Me₂CM₂)C₆H₂Cl, b. 118-20°, *n*_D²⁰ 1.5300, *d*₄²⁰ 1.0084, along with 1,3,5-Me₃(Me₂CM₂)C₆H₂Cl, m. 134-3°. The above products formed from the starting material prepd. by the H₂SO₄ method; if the AlCl₃-treated hydrocarbon was used, the yield of the chloromethyl deriv. rose to 43.6%, b. 130-7°, *n*_D²⁰ 1.5280. Heating the chloromethyl deriv. with NaOAc in the presence of pyridine 3 hrs. to 125°, and 4 hrs. at 125°, followed by 0.5 hr. after addn. of H₂O at 80°, gave 67% corresponding acetate, b. 127-9°, *n*_D²⁰ 1.5059, *d*₄²⁰ 0.8533; the acetate prepd. from AlCl₃-treated hydrocarbon was obtained similarly, b. 151-3°, *n*_D²⁰ 1.5004. Sapon. with 10% alc. NaOH gave the same benzyl alc. m. 98-9°. Alkylation of C₆H₆ (550 g.) with 250 g. *iso*-BuOH by addn. over 1 hr. of 1400 g. H₂SO₄ at 60° followed by 6 hrs. at 70° gave 520 g. liquid material and 110 g. solid, isolated by steam distn. Distn. gave 121 g. PhCM₃, b. 166-8°, *n*_D²⁰ 1.4011, *d*₄²⁰ 0.8530, along with some 20 g. *p*-C₆H₄(CM₃)₂, m. 77-8°. Reaction of 20 g. C₆H₆, 10 g. *iso*-BuCl and 3 g. AlCl₃ gave some 8 g. Me₂CM₂ and an unreacted yield of *p*-C₆H₄(CM₃)₂, m. 77-8°. Heating the latter with AlCl₃ up to 6 hrs. at 100°, with or without passage of dry HCl, gave much tar along with a small amount of liquid material which boiled over a wide range; this could not be identified since a typical fraction, b. 91-3°, *n*_D²⁰ 1.4350, *d*₄²⁰ 0.8483, was not homogeneous; on standing it deposited *p*-C₆H₄(CM₃)₂, m. 76-7°. C. M. Kresolapoff

All-Union Sci.-Res. Inst. Synthetic + Natural Essential Oils

Kore, S.A.
RODIONOV, V.M.; SELOV, V.M.; KORE, S.A.

Orientation of a tert-butyl group on introduction into an
aromatic nucleus. Trudy VNIISNDV no.2:15-17 '54. (MLRA 10:7)
(Butyl group) (Aromatic compounds)

KORE, S.A.

USSR/Organic Chemistry, Synthetic Organic Chemistry.

E-2

Abs Jour: Ref Zhur-Khimiya No 6, 1957, 19108

Author : Kore S.A., Rodionov V.M., Belov V.N.,
Inst : _____

Title : The Dependence Between the Structure of Organic
Compound and its Scent. Publication 5. Dimethylols
Derivative of Diisopropylbenzene and its Acetate.

Orig Pub: Tr. Vses. N. -I. In-ta Sintet. and Natur. Dushistykh
Veshchestv, 1954, vyp. 2, 21-22.

Abstract: At the chlormethylation of $(\text{iso-C}_3\text{H}_7)_2\text{C}_6\text{H}_4$ (I) with
formaline and HCl (acid) in the presence of H_2SO_4
 $\text{ClCH}_2\text{-I}$ and a small amount of $(\text{ClCH}_2)_2\text{-I}$ (Ia), m.p.
131.5° (from alcohol) is formed. Yield Ia is in-
creased with the increased amount of H_2SO_4 . Ia at the
action of CH_3COONa in the presence of a small amount

Card : 1/2

KORE, S.A.; KUSTOVA, S.D.; BELOV, V.M.

Intermediate products of the synthesis of odorous substances.

Report No.9: Converting primary chlorides to corresponding aldehydes by the Kröhnke method. Trudy VNIISMDV no.4:39-41 '58.

(MIRA 12:5)

(Aldehydes) (Perfumes, Synthetic)

KORE, S.A.; BELOV, V.N.

Relation between the structure of organic compounds and their
odor. Report no.6: Production of 2,4,5-triisopropylbenzaldehyde.
Trudy VNIISNDV no.4:41-44 '58. (MIRA 12:5)
(Perfumes, Synthetic) (Benzaldehyde)

KORE, S.A.

Production of diacyl peroxides. Trudy VNIISNDV no.4:200-201
'58. (MIRA 12:5)
(Peroxides)

KORE, S.A., kand.khim.nauk; RUDOL'FI, T.A., kand.khim.nauk; REYNAGACH,
B.Ya.

New constituents of compositions having a jasmine odor,
Masl.-shir.prom. 25 no.11:27-29 '59. (MIRA 13:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteti-
cheskikh i natural'nykh dushistykh veshchestv.
(Odorous substances)

RUDOL'FI, T.A.; KORE, S.A.; REYNGACH, B.Ya.

Paper chromatography of certain organic acids. Trudy VNIISNDV
no.5:74-77 '61. (MIRA 14:10)

(Paper chromatography)
(Organic compounds)

KORE, S.A., kand.khimicheskikh nauk; SHEPELENKOVA, Ye.I.; CHERNOVA, Ye.M.,
1 zh.

Acetals and their identification in a thin layer by the
chromatographic method. Masl.-zhir.prom. 28 no.3:32-33 Mr '62.
(MIRA 15:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh i
natural'nykh dushistykh veshchestv.

(Acetal) (Chromatographic analysis)

KORE, S.A.; REYNGACH, B.Ya.

Paper chromatography of some phenols. Trudy VNLSNDV no.6:120-121
'63. (MIRA 17:4)

KOREC, A.

Fully attacking the problem of planning in factories. p. 241. (PRZEMYSŁ ROLNY I SPOŻYWCZY, Vol. 8, No. 7, July 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.

KOREC. A.

Technicians must join the fight for reduction of production cost. p. 244.
(PRZEMYSŁ ROLNY I SPOŻYWCZY, Vol. 8, No. 7, July 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec.
1954, Uncl.

6

Condensation method for determining petroleum hydrocarbons in the air. V. Podolský, J. Janok, and J. Korec. Oblastní Ústav Hyg. Práce, Bratislava, Czech. J. Pracovní Lékařství 8, 121-3 (1988). Method and app. are described for detg. the total sum of gaseous hydrocarbons after removing water with CaCl_2 by weighing their condensate in glass containers cooled by solid CO_2 in MeOH. The mean error is 4.8% at a speed of suction of 1 l./8 min. and 0.5% at a rate of 1 l./10 min. L. J. Urbánek

chem

PM

KOREC, Ladislav

Low frequency analysis. Sdel tech 12 no.4:128 Ap '64.

KOPEC, R.

Teoretická baza patogenezy, symptomov a terapie diabetes mellitus.
[Theoretic basis for pathogenesis, symptoms and therapy of diabetes mellitus] Bratisl. lek. listy 30:4-5 Apr-May 50 p. 325-31

1. Of the Institute of General and Experimental Pathology of the Branch of the Medical Faculty of Slovak University in Kosice.

KOREC, RUDOLF

"Metabolizmus. Bratislava, Vydavateľstvo Slovenskej akadémie vied, 1955. 230 p.
(Metabolism bibl., diagrs., graphs, index tables)"

P. 230 (Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 7, July 1958

CZECHOSLOVAKIA/Human and Animal Physiology - Internal Secretion. T
The Pancreas.

Abs Jour : Ref Zhur Biol., No 3, 1959, 13009

Author : Korec, R;

Inst : ~~Inst. of Physiology~~

Title : Influence of Cystine and Indole-3-Acetic Acid on
Insulin-Induced Hypoglycemia under Experimental
Conditions.

Orig Pub : Bratisl. lekar. listy, 1957, 2, No 10-11, 613-617

Abstract : The experiment was conducted on 34 healthy rabbits
weighing 1.5 - 4.5 kg and 37 rats; alloxanic diabetes
was induced in 21 of the latter. After determination of
glycemia (G) by fasting blood sugars 5 ml of a 5% solu-
tion of NaHCO_3 was injected into the rabbits and 5 mi-
nutes later 1 unit of insulin (I); G was determined
after 30 - 180 minutes. On the 2nd day these same rab-
bits were injected intravenously with 0.25 and 0.5 of

Card 1/2

CZECHOSLOVAKIA/Human and Animal Physiology - Internal Secretion. T
The Pancreas.

Abs Jour : Ref Zhur Biol., No 3, 1959, 13009

either 1 millimol/kg of cystine (II) or indole-3-acetic acid (III) and 5 minutes later with 1 unit of I. II and III alleviated the effect of I somewhat, but injection of a dosage of 0.5 mmol/kg without I induced in the rabbits and rats with a severe form of diabetes an insignificant decrease of G, but in normal rats with a mild form of diabetes there was quite a lessening of G. --
V.V. Yazvikov

Card 2/2

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KOREC, R.; HERKELOVA, L.

The mechanism of hypoglycemic action of indole-3-acetic acid and of sulfanilyl carbamide (invenol). Cesk. fysiол. 7 no.3:266-267 May 58.

1. Ustav pre vseob. a exper. patologia Lekarskej fakulty University Komenskeho v Kosiciach.

(ANTIDIABETICS, eff.

carbutamide, with indole-3-acetic acid (Cz).

(INDOLACETIC ACID, eff.

hypoglycemic, with carbutamide (Cz))

(BLOOD SUGAR, eff. of drugs on,

indolacetic acid alone & with carbutamide (Cz))

KOREC, R.; HENKELOVA, L.

Lesions of alpha-cells of the islands of langerhans and hypoglycemic effect of indole-3-acetic acid and sulfanilylbutylcarbamide. Cesk. fysiол. 7 no.5: 492-493 Sept 58.

1..Ustav pre vseobecnu a experimentalnu patologiu Lek. fak. UK, Kosice.

(INDOLACETIC ACID, effects,

islands of langerhans alpha-cell destruction & hypoglycemic eff. in animals (Cz))

(CARBUTAMIDE, effects, same)

(ISLANDS OF LANGERHANS, eff. of drugs on, carbutamide & indolacetic acid, destruction of alpha-cells in animals (Cz))

KORNC, R.

A method of temporary ligation. *Cesk. fysiolog.* 8 no.3:211-212 Apr 59.

1. Ustav pre vseobecnu a experimentalnu patologiu Lekarskej fakulty
UK v Košiciach. Prednesene na III. fyziologických dnoch v Brne dna 14.
1. 1959.

(BLOOD VESSELS, physiol.
temporary ligation in exper. animals (Cx))

KOREC, R.

Effect of insulin on glycemia studies by means of a temporary and permanent method of ligation of the v. portae and v. hepaticum in rats. Cesk. fysiол. 9 no.1:28 Ja 60.

1. Ustav pre vseobecnu a experimentalnu patologiю Lek. fak. KU, Kosice.

(INSULIN pharmacol.)

(PORTAL VEINS physiол.)

(HEPATIC VEIN physiол.)

KOREC, R.; Technická spolupráca LEHOČKA, I.

Subtotal pancreatectomy in rats. Cas. lek. česk. 101 no.24/25:757-759
22 J. '62.

1. Ústav pre všeobecnú a experimentálnu patológiu lekárskej fakulty
Univerzity P. J. Šafárika v Košiciach, prednosta doc. dr. R. Korec.

(PANCREAS surgery)

KOREC, R.; ŠOFRANKOVÁ, A.

Free and bound glucose in the urine. Cas. lek. česk. 102 no.8:
219-220 22 F '63.

1. Ústav pre všeobecnú a experimentálnu patológiu Lekárskej fakulty
UPJS v Košiciach, prednosta doc. dr. R. Korec.
(GLYCOSURIA) (CHEMISTRY, ANALYTICAL) (OXIDASES)
(DIABETES MELLITUS) (URINE)

KOREC, R.; technická spolupráce LEHOČKA, I.

Estimation of glucose by the glucose oxidase method. Cas. lek. česk.
102 no.6:152-155 8 F '63.

1. Ústav pro všeobecnou a experimentální patologii lékařské fakulty
UPJS v Košicích, přednosta doc. dr. R. Korec.
(BLOOD SUGAR) (OXIDASES) (BLOOD CHEMICAL ANALYSIS)
(GLUCOSE)

1/1

Korec, S.

CZECHOSLOVAKIA/Safety Engineering. Sanitation Engineering. L
Sanitation.

Abs Jour: Ref Zhur-Khimiya, No 3, 1957, 10701

Author : Podolsky, V. and Korec, S.

Inst : Not given

Title : Concerning Sanitary Precautions During the Handling of Gasoline

Orig Pub: Bezpecn. a hyg. prace, 1956, Vol 7, No 7, 209-211
(in Slovak)

Abstract: Hydrocarbon vapor concentrations of 200 and 226.3 mg/liter have been measured during the cleaning of containers and storage tanks used for the storage of gasoline (G) and other petroleum products (the maximum permissible G concentration according to American standards is 2-4 mg/liter and according to Soviet standards of 0.3 mg/liter). The vapor concentration decreases rapidly during ventilation. A new method is proposed for the determination of the concentration of

Card 1/2

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824610017

CZECHOSLOVAKIA/Safety Engineering. Sanitation Engineering. L
Sanitation.

Abs Jour: Ref Zhur-Khimiya, No 3, 1957, 10701

Abstract: G vapors in the air; the method is based on the condensation of the vapors at low temperatures; the air is drawn through a glass coil at the lower end of which is attached a receiver for the liquid G. During sampling the condenser is immersed in a vacuum insulated methyl alcohol bath which is maintained at a temperature of -70 to -74° by CO₂ gas. The water vapors are adsorbed by granulated CaCl₂. The condensed G is weighed. The above-described method is more convenient, simpler and quicker than the potentiometric method.

Card 2/2

KOREC, S.

2. On the Dynamic Changes of Transaminase Activity in Toxic Injury to the Liver, by J. ERZEL, A. JAVOREK and J. LADNY, from the 1st Clinic of Internal Medicine (1st Internal Medicine) at the Faculty of Medicine, University of Medicine and Pharmacy, Prague, Czechoslovakia; and from the Institute of Physiological and Pathological Physiology, Institute of Physiology, Academy of Sciences of the Czech Republic, Prague, Czechoslovakia; English summary, pp. 457-461 (English summary).
3. The Role of Psychic Factors in the After-Treatment of Postoperative Infection, by H. EINHORN, from the 1st Clinic of General Medicine (1st Internal Medicine) at the Faculty of Medicine, University of Medicine and Pharmacy, Prague, Czechoslovakia; English summary, pp. 461-464 (English summary).
4. On the Importance of the Psychosomatic Component in Surgery and Normal's Disease, by V. ZIMON, of the Department of Clinical Physiology (Cardiology, Vascular Physiology) at the Institute of Experimental Medicine of the Czech Academy of Sciences, Prague, Czechoslovakia; English summary, pp. 464-467 (English summary).
5. Late Results of the Surgical Treatment of Pulmonary Tuberculosis by Thoracoplasty, by V. VACEK, J. LADNY and J. KOLAR, from the 1st Clinic of Internal Medicine (1st Internal Medicine) at the Faculty of Medicine, University of Medicine and Pharmacy, Prague, Czechoslovakia; English summary, pp. 467-470 (English summary).
6. The Management Strategy, by Docent S. KREJCI, MD, chief (predecessor), and T. VYBIZ, of the Cardiology and Pulmonology Clinic (Pulmonology and Cardiology), Institute of Medicine of the Czech Academy of Sciences, Prague, Czechoslovakia; English summary, pp. 470-473 (English summary).

KORECEK

All technicians should be informed on new techniques. Prum
potravin 13 no.5:275 My '62.

W. C. Smith, Sr., Inc.

500-watt steel television tower. Hant. 1 spots, rel. v
steel. 23 ac. 7431-22 01 181. (SIC 14.7)
(Cape Girardeau, Missouri--Television--Transmitters and transmission)

①
CZECHOSLOVAKIA/CANADA

KORECKY, B., BEZNAK, M., KORECKA, M.; Institute of Pathological Physiology, Pediatric Clinic (Ústav Patologické Fysiologie Fak. Detsk. Lek.), Prague; Department of Physiology, University of Ottawa.

"Changes in the Maximum Performance of the Lung-Heart Preparation in Rats after Hypophysectomy and its Preparation by Administration of Some Substituting Hormones."

Prague, Ceskoslovenska Fysiologie, Vol 15, No 2, Feb 66, pp 116-117

Abstract: In animals hypophysectomy reduces minute volume, heart beat and blood pressure. Administration of thyroxin improves most of the factors, while a combination of thyroxin and growth hormone nearly normalizes the conditions. The influence on an isolated heart was very similar, but there was no cumulative effect of the growth hormone and thyroxin. 1 Western reference. Submitted at "16 Days of Physiology" at Konice, 29 Sep 65.

1/1

KORECKI, K.

"Iron as a Harmful Addition in Aluminum Alloys." Biuletyn. p.17
(PRZEGLAD ODLEWNICTWA Vol. 3, no. 9, Sept. 1953 Krakow, Poland)

SO: Monthly List of East European Accessions, LC, Vol. 3, no. 5, May 1954/Uncl.

KORECKI, K.

3763

321.74.041:669.715.018:2

Korecki K. Influence of Chemical Composition and of Casting and Pouring Conditions of the AL4 Alloy on Mechanical Properties and Microstructure of Sand Castings. MG

„Wplyw składu chemicznego i warunków topienia oraz odlewania stopu AL4 na własności mechaniczne i mikrostrukturę odlewów piaskowych”, (Prace Inst. Odlewn. No. 1), Warszawa, 1954, PWT, 15 pp., 31 figs., 9 tabs.

Casting and pouring technology employed in relation to the AL4 aluminium alloy create, together with its chemical composition, conditions which encourage a number of structural defects, determining the mechanical properties of castings. Data gathered during the investigations carried out in industry and concerning the inadequate tensile strength (Rr) and elongation (a5) of castings made in autoclave, made possible more exact enquiries into the nature of this alloy and the definition of the principal agents causing the particular defects. Discussion is entered concerning the effect on mechanical properties of magnesium, iron and manganese content, of the structure of eutectic aluminium pigs, and of the shape and type of castings. The conditions for forming Fe-Mn-Al-Si crystal segregation, silicon crystals segregation, Mg₂Si segregation and the triple eutectic network of Al-Si-Mg₂Si are given together with directions concerning casting and pouring technology and practical preventive measures.

Of

Korecki, Kazimierz

POL.

Influence of iron and zinc on the technological properties of pressure die castings made of aluminum alloy. Kazimierz Korecki and Tadeusz Welkns. *Przeglad Odczynstwy* 4: 251-2, 1954. — Contrary to a general opinion that presence of Fe and Zn impurities in Al alloy is detrimental it was found that in certain cases their presence is useful. Al alloy, grade LA 2A (Polish designation) contg. Si 8-10, Cu 0-0.3, Mg 0.2-0.4, Mn 0.3-0.5, Zn 0-0.3, and Fe 0-0.6% after its Zn and Fe content was increased to 0.6-1.0 and 0.6-1.0, resp., was best suited for die castings. Better machining properties, tendency not to develop cracks, and better external aspects characterize the latter alloy.

Frank J. Hendel

①

M. J. Hendel

KORECKI, K.

KORECKI, K.; LECH, Z. "Casting aluminum alloys from scrap. Biuletyn."
Przegląd Odlewnictwa, Krakow, Vol 4, No 5, May 1954, p. 9

SO: Eastern European Accessions List, Vol 3, No 10, Oct 1954, Lib. of Congress

KORECKI, K.

Some research work and investigations on light alloys made by the Foundry Research Institute during the ten-year period of its existence. p. 32.
(INZYNIERIA I BUDOWNICTWO, Vol. 6, No. 1/2, 1956, Warsaw, Poland)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 9, Sept. 1957, Uncl.

POLISH TECHNICAL ABSTRACTS

Vol. 26, Nr. 2, 1957

Lech Z. Koracki R. Casting Scrap Magnesium Alloys

140 "Odlewankie stopy magnezu ze złomem". Przegląd Odlewnictwa, No. 7, 1957 (Bul. Int. Inst. Odlewn.) pp. 14-18, 4 tabs.

The problem of utilizing scrap magnesium alloys in the manufacture of castings for non-military purposes. The object of this investigation was to find methods for the treatment of existing reserves of scrap for producing the alloys in pigs, and, in relation to such reserves, to define production possibilities as affecting both quality and quantity. The investigation was based on the Soviet standard specification GOST 2886-40. The best results were achieved with the ME4 alloy which can be obtained, when the composition of the charge is chosen correctly, by once melting scrap No. 3505, and by twice melting unmarked scrap and such as is marked with numbers 3504, 3506, 3510 and 3520. To prepare scrap for melting, it must be cleaned of non-metallic impurities (sand) and all metallic parts (reinforcements, screws, etc.) must be removed.

KORZEKI KAZIMIERZ

✓1935* (Polish): Exothermic histories for the casting of alloys containing iron and nickel. Kazimierz Korzecki, *Prace Instytutu Włóknarstwa i Przemysłu Chemicznego*, v. 6, no. 9, Sept. 1935, p. 292-300. Exothermic histories for non-ferrous metals, nodular cast iron, and cast steel are obtained by an exothermic reaction.

KONECKI, K.; WELKENS, T.

Exothermic masses for feeders. (To be contd.). p. 178.

PRZEGLAD ODLEWNICTWA. Krakow, Poland. Vol. 9no. 6, June, 1959.

Monthly List of East European Accessions (EEAI), IC, Vol. 8, no. 9, September, 1959.
Uncl.

KORECKI, K. : WEKLENS, T.

Exothermic Materials for Feeders, p. 218.

PRZEGLAD ODLEWNICTWA (Stowarzyszenie Techniczne Odlewikow Polskich)
Krakow, Poland
Vol. 9, no. 7, July 1959.

Monthly List of East European Accessions Index (EEAI), LC, Vol. 8, No. 11,
November 1959.
Uncl.

LECH, Zbigniew; KORECKI, Kazimierz

Selection of the method of die casting of aluminum alloys tensile test bars. Prace inst odlewn 10 no.2:98-114 '60.

1. Zaklad Metali Niezelaznych, Krakow.

WELKENS, Tadeusz, mgr inż.; KORECKI, Kazimierz, doc. mgr inż.; TARAN,
Jerzy, mgr inż.

Economizing in iron casting by using the method of exothermic
risers. Przegl odlew 12 no.1:14-20. Ja '62;

KORECKY, B.

Changes of pulmonary elasticity in ontogenesis in rats. Cesk. fysiол.
7 no.3:214-215 May 58.

1. Odd. patologické fysiologie fak. detského lek., Praha.
 (LUNGS, physiол.
 elasticity, age factor in young rats (Cz))
 (AGING, eff.
 on lung elasticity in young rats (Cz))

POUPA, O.; KORECKY, B.

Enteral oxygen insufflation in anoxia in young animals. *Cesk. fysiolo.*
6 no.3:237-238 Apr 59.

1. Laborator fysiologie a patofysiologie premeny latek CSAV a Oddeleni
patologicke fysiologie detskeho lekarstvi, Praha. Predneseno na III.
fysiologickych dnech v Brne dne 15. 1. 1959.

(ASPHYXIA NEONATORUM, exper.

enteral oxygen insufflation (Cz))

(OXYGEN, eff.

enteral insufflation in exper. asphyxia neonatorum (Cz))

KORECKY, B.;POUPA, O.

Variations in metabolic findings following enteral insufflation
of oxygen in younger or older than 14 days. Cesk. fysiол. 8 no.3:
416-417 S '59

1. Oddeleni patologické fysiologie Fak. detek. lek. KU, laborator
fysiologie a patofysiologie premeny latek CSAV, Praha.

(ANOKIA)

(OKYOM eff.)

KORECKY, B.; MACEK, M. za technicke spoluprace A. Machanove

On disorders of intra-alveolar gas mixing in children. Cesk. pediat.
14 no.11;1002-1005 November 59.

1. Oddeleni patologicke fyziologie fakulty detskeho lekarstvi,
prednosta doc. MUDr. V. Zelenka I. detska klinika, prednosta prof.
MUDr. J. Svejcar.
(RESPIRATION)

KORECKY, B.; MACEK, M.

A simple method for the determination of intra-alveolar gas mixing in children. Cesk. pediat. 14 no.11:996-1001 November 59.

1. Oddeleni patologické fyziologie fak. detského lékařství, přednosta doc. MUDr. V. Zelenka I. detská klinika, přednosta prof. MUDr. J. Svejcar.

(RESPIRATION, funct. & tests)

KORECKY, B.; POUPA, O.

Use of intestinal oxygen insufflation as a resuscitation method in a phase of clinical death consecutive to severe hypoxia in young rats. Cesk.fysiol. 9 no.3:243 My '60.

1. Ustav patologické fyziologie fak. lékař. KU, Laborator fyziologie a patofyziologie přeměny látek CSAV, Praha
(ANOXIA exper)
(RESUSCITATION)
(OXYGEN)

Korecky, B.; VAVRA, J.; MYDILIL, V.

Simplified construction for body plethysmograph for newborn and small infants. *Cesk.fysiol.* 9 no.6:559-561 N '60.

1. Oddeleni patofysiologie fak.detsk.lek. KU, Laborator fysiologie a patofysiologie premeny latek CSAV, I. detska klinika lek.fak. KU, Praha.

(PLETHYSMOGRAPHY equip & supply)

MACEK, Milos; KORECKY, Bohuslav[?]*; za spoluprace: NOVAKOVE, Marie; KULIKOVE, Evy

Ventilation test in asthmatic children. Cesk.pediat.15 no.6/7:604-609
J1'60.

1. I. detska klinika KU v Praze, prednosta prof. MUDr. Josef Svejcar
Katedra farmakologie a experimentalni patologie, prednosta prof.
MUDr. Helena Raskova.

(ASTHMA in inf & child)
(RESPIRATION physiol)

* Probably Borivoj

MYDLIL, V.; VAVRA, J.; KORECKY, B.

Investigation of the respiratory rate of the tidal and minute volume by the mask method and by a body plethysmograph in newborn infants. Acta univ. carol.[Med] no.2:195-202 '61.

1. I detska klinika fakulty detskeho lekarstvi University Karlovy, prednosta prof. MUDr. J. Svejcar Oddeleni patologicke fysiologie fakulty detskeho lekarstvi University Karlovy, prednosta doc. MUDr. V. Zelenka.

(PLETHYSMOGRAPHY in inf & child)
(RESPIRATION in inf & child)
(INFANT NEWBORN physiol)

MACEK, M.; NOVAKOVA, M.; KORECKY, B.

Proposal for a new expiratory index received from the curve of expiration in timed vital capacity of the lungs. Cesk. pediat. 17 no.1:38-43 Ja '62.

1. Oddeleni telovychovneho lekarstvi katedry nemocnici pediatie, prof. dr. J. Svejcar Katedra farmakologie a experimentalni patologie, predn. prof. dr. H. Raskova.

(RESPIRATION physiol)

KORECKY, Borivoj; POUPA, Otakar; technicka spoluprace MIKOVA, M.

Experimental basis for the use of enteric insufflation of oxygen
as a resuscitation method in asphyxia neonatorum. Cas. lek. cesk.
101 no.21:660-663 '62.

1. Oddeleni patologické fyziologie fakulty detskeho lékařství KU
v Praze, prednosta prof. dr. O. Poupa Fyziologický ústav CSAV,
prednosta prof. dr. Z. Servit.

(ASPHYXIA NEONATORUM experimental)
(OXYGEN ther)

RAKUSAN, H.; KORECKY, B.; ROTH, Z.; POUPA, O.

Development of the ventricular weight of the rat heart with special reference to the early phases of postnatal ontogenesis. *Physiol. Bohemoslov.* 12 no.6:518-525 '63.

1. Institute of Pathological Physiology, Faculty of Paediatrics, Charles University, Institute of Industrial Hygiene and Occupational Diseases, Department of Physiology and Pathophysiology of Metabolism, Institute of Physiology, Czechoslovak Academy of Sciences, Prague.

(MYOCARDIUM) (GROWTH)

KORECKY, B.; RAKUSAN, K.; POUPA, O.

The effect of anaemia due to iron deficiency during early postnatal development of the rat on growth and body composition later in life. *Physiol. Bohemoslov.* 13 no.1:72-77 '64.

1. Institute of Pathological Physiology, Faculty of Paediatrics, Charles University and Institute of Physiology, Czechoslovak Academy of Sciences, Prague.

*

POUPA, O.; KORECKY, B.; KROFTA, K.; RAKUSAN, K.; PROCHAZKA, J.

The effect of anaemia during the early postnatal period on vascularisation of the myocardium and its resistance to anoxia. *Physiol. Bohemoslov.* 13 no.3:281-287 '64

1. Institute of Physiology, Czechoslovak Academy of Sciences
and Institute of Pathological Physiology, Faculty of Paediatrics,
Prague.

POUPA, O.; RAKUSAN, K.; KROFTA, K.; KORECKY, B.; PROCHAZKA, J.

On some developmental and adaptive changes in the mammalian heart.
Cesk. fysiол. 13 no.4:391-395 J1 '64.

1. Fysiologicky ustav Ceskoslovenske akademie ved, Ustav pathologicke fysiologie fak. detsk. lek. Karlovy University, Praha.

KORECKY, B.; RAKUSAN, K.; POUPA, O.

The weight and chemical composition of the heart of rats suffering from sideropenic anaemia in the early postnatal period. *Physiol. Bohemosl.* 13 no.5:439-445 '64.

1. Institute of Pathological Physiology, Faculty of Paediatrics, Charles University and Institute of Physiology, Czechoslovak Academy of Sciences, Prague.

CZECHOSLOVAKIA/CANADA

~~APPROVED FOR RELEASE: 06/14/2000~~ M; ~~CIA-RDP86-00513R000824610017~~

Physiology, Pediatric Clinic (Ustav Patologicke Fysiologie Fak. Detsk. Lek.), Prague; Department of Physiology, University of Ottawa.

"Changes in the Maximum Performance of the Lung-Heart Preparation in Rats after Hypophysectomy and its Preparation by Administration of Some Substituting Hormones." s/p

Prague, *Ceskoslovenska Fysiologie*, Vol 15, No 2, Feb 66, pp 116-117

Abstract: In animals hypophysectomy reduces minute volume, heart beat and blood pressure. Administration of thyroxin improves most of the factors, while a combination of thyroxin and growth hormone nearly normalizes the conditions. The influence on an isolated heart was very similar, but there was no cumulative effect of the growth hormone and thyroxin. 1 Western reference. Submitted at "16 Days of Physiology" at Kosice, 29 Sep 65.

1/1

RAKUSAN, K.; JELINEK, J.; KORECKY, B.; SOUKUPOVA, M.; POUPA, O.

Postnatal development of muscle fibres and capillaries in the heart. *Physiol. Bohemosl.* 14 no.1:32-37 '65

[illegible]

137 AND 138 CODES

PROCESSING AND PROPERTIES INDEX

4

CA

Chemical control of chromium-plating bath. JAN KOURECKÝ. *Chem. Abstr.* 6, 174-7, 204-5(205 English)(1931).--The compn. of the Cr-plating bath is controlled carefully by detn. of individual components of the bath which are significant for the process. The CrO_3 content of the bath is obtained by sp. gr. detn. which are compiled in a chart in the range of 280-350 g. CrO_3 per l. at 15°. Cr^{VI} and Cr^{III} are detd. iodometrically or manometrically, the latter method being more rapid and convenient. Detn. of H_2SO_4 and Fe is very important, especially when the container is of Fe. The Cr-plating bath contains 280-350 g. CrO_3 , 35-50 g. Fe and 15-20 g. Cr_2O_3 per l. and H_2SO_4 equal to about 1% of the CrO_3 present.

JAN KOURECKÝ

ASD-138 METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
PROCESSES AND PROPERTIES INDEX																																																			
<div style="text-align: right;">26</div> <p>Determination of the stability of varnish toward the action of motor fuel. Jan Kurecky. Chem. Abstr. 8, 47-8 (1933).—Drop the fuel (25-30 drops per min.) on a small lacquered board and note the time at which the lacquered film starts to corrode. It is possible to detect by this test very small deviations in the stability of nitrocellulose and special "motor fuel-proof" varnishes.</p> <p style="text-align: right;">Jaroslav Kufcra</p>																																																			
<div style="display: flex; justify-content: space-between;"> <div> <p>COMMON ELEMENTS</p> <p>COMMON MOSES</p> <p>COMMON</p> </div> <div> <p>ALLOYS</p> <p>METALLURGICAL LITERATURE CLASSIFICATION</p> </div> <div> <p>ALLOYS</p> <p>ALLOYS</p> </div> </div>																																																			

IV AND 2ND SERIES		PROCESSES AND PROPERTIES INDEX		1st AND 2nd SERIES	
B-C				B-II-8	
<p>Resistance of Inconel towards (liquid) fuel mixtures. H. Kottmann (Chem. Abstr., 1933, 8, 47-48; Chem. Ber., 1933, 66, 1, 2001).—Addition of 30% of NaOH to benzene, and particularly of greater quantities of NaOH, increases corrosion. A. A. E.</p>					
<p>ASME-CIA METALLURGICAL LITERATURE CLASSIFICATION</p>					
1st AND 2nd SERIES		1st AND 2nd SERIES		1st AND 2nd SERIES	

1ST AND 2ND GROUPS										3RD AND 4TH GROUPS									
PROCESSES AND PROPERTIES INDEX																			
<p><i>Chromium Plating of Moulds for Glass. Jan Kovachy (Abdullah Rozhdey, 1933, 18, 22-24; Chem. Zvest., 1964, 288, 11, 206).—Chromium-plated metal moulds give a much better finish to moulded glass articles and have a longer life than unplated moulds. The chromium layer should be 0.002-0.008 mm. thick with a 0.001 mm. thick undercoating of nickel; with 60-80 amp./dm.² at 25°-40°, the necessary chromium deposit is produced in 10-15 minutes. —A. R. P.</i></p>																			
ASB-I LA METALLURGICAL LITERATURE CLASSIFICATION																			
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STOM 514 REIYN										STOM 514 REIYN									

M

70

CHEMICAL METHODS OF FINISHING THE SURFACE OF METALS. Jan Kurecky.
Chem. Abstr., 1941, 18, 178-180; *Chem. Zentr.*, 1941, 118, (II), 1240; C.
Abstr., 1944, 38, 16661.—(Metals to be treated chemically to provide a surface
finish must first be thoroughly cleaned. Methods of cleaning are described.
The changes produced in the surfaces of the following metals and alloys by
the treatments mentioned are discussed: of iron and iron alloys by oxidation;
the action of carbon and nitrogen, chromating and phosphatizing; of copper
and copper alloys by treatment with K_2S , $NaOH$, Na_2SO_3 , and Pb acetate;
of aluminium and aluminium alloys by oxidation by the Bauer-Vogel method;
of zinc and zinc alloys by phosphatizing; and of magnesium and its alloys by
chromating, phosphatizing, and treatment with selenium.)

ASIS-SLA METALLURGICAL LITERATURE CLASSIFICATION

CA

7

Progress in the nitriding of steel and cast iron. Jan Kugler. (Chem. Abstr. 10, 3(1941); (Chem. Abstr. 1941, 11, 2281). The nitriding of surfaces of steel and alloys, which occurs with nascent N derived from NH₃, usually, has been perfected along lines of lower working temps., smaller deformations of articles, harder surfaces which do not change below 500°. For the nitriding of alloy steels K. found Al 1, Cr 1, Ni 3.5, C 1.5, Cr 12, V 0.9 or Mo 0.9% suitable. For increasing the ductility of steel K. substituted Sn for S. Besides carbide steels K. was able to harden austenite steel with nascent N. The optimum temp. for hardening ranges from 810-20°. For an alloy contg. C 2.4-2.8 (1.9% graphite 0.8% bound C) Si 2.4-3.2, Mn 0.5-0.7, S less than 0.07, Al 0.5-1.0, Cr 1.2-1.7, his eventually 0.5-0.8 and V eventually 0.15%.

K. nitrides the metal at 825-80° for 10 min., cools it to 810° in air and obtains a Brinell hardness of 300-320; by nitriding at 820° and cooling to 700° in air he obtains a hardness of 265-75; by nitriding at 830° and cooling to 700-85° he obtains a hardness of 450; the alloy remains brittle. Nitriding of other alloys is illustrated.

Frank Maresch

ATM-55-A METALLURGICAL LITERATURE CLASSIFICATION

N

Korecky, Jan, and Rudolf Pospisil. *Várodní Kory v technice. (Rare Metals and their Technical Use.) [In Czech.]* 12.5 x 17 cm. 170 pp., with 16 illustrations. 1968. Prague: Technická a matematická. (Kos. 56.)

AS-5LA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND GROUPS										3RD AND 4TH GROUPS									
PROCESSES AND PROPERTIES INDEX																			
<p>B</p> <p>New Uses for Alkali Metals. (In Czech.) Jan Koresky. Hutnické Listy, v. 3, Mar. 1948, p. 80-81. Describes uses of Na and Li in decoxidation of alloy steels; various reactions with oxides of Fe, Ni, and Cr; and reactions of Li with H₂O, O₂, and CO.</p>																			
<p>ASACSLA METALLURGICAL LITERATURE CLASSIFICATION</p>																			
<p>GROUPS: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20</p>																			

117 AND 118 SERIES		PROCESSING AND PROPERTIES INDEX		119 AND 120 SERIES	
<p>CA</p> <p>Use of titanium in the chemical industry. (see Korotkiy, Chem. Obozr. 23, 124-6 (1948).—Phys. and chem. properties of Ti and its use even in the construction of large app., in heating tubes, and counterflow coolers are described. Jan. 1948)</p>					
<p>ASG-51A METALLURGICAL LITERATURE CLASSIFICATION</p>					
117 AND 118 SERIES		119 AND 120 SERIES		121 AND 122 SERIES	
117 AND 118 SERIES		119 AND 120 SERIES		121 AND 122 SERIES	

C.A.

The rapid determination of sulfur in steel by the planochromatic method of Glasnov and Jirkovsky. Jan Korecky and Josef Nejedly. *Hutnická Listy* 5, 330-32(1957). Glasnov and Jirkovsky (C.A. 48, 2540b) have described a rapid method for detg. S in steel. An unknown wt. but known surface of the sample is exposed for a definite time to the action of HCl. The escaping gases are passed into a tube contg. a dil. acidic soln. of dimethyl-p-phenylenediamine chloride. After adding a little FeCl₃ the color is measured. The method was tried and more time was required for the evolution of H₂S than was stated in the original paper. The evolution of H₂S is very irregular if cast bars of the specimen are used. For these and other reasons, the conclusion is reached that the planochromatic method of G. and J. takes more time than the combustion procedure does.

E. Gross

KORECKY, JAN

Nickel plating without electric current as a stop-off when nitriding. Jan Korecky. *Hutnické Listy* 5: 414-16(1959). Expts. were carried out on the possibility of using chem. Ni deposition as protection to steel surfaces during nitriding. The nitriding Cr-Al steel (C 0.35, Mn 0.77, Cr 1.60, Al 1.00%) was made up into cylinders 12 mm. in diam. and

90 mm. long, with finely ground surfaces. The specimens were Ni-coated by the process described by Brenner (C.A. 41: 32) for obtaining dull surfaces. Coating times were 15, 30, and 60 min., resp. Nitriding at 490° for 48 hrs. followed the coating process. Hardness measurements were made after grinding off the Ni deposits. Coatings obtained by the above technique at 90° during 10 to 15 min. were thick enough to prevent the nitriding of the steel at 500° for as long as 48-96 hrs. Baths of different compositions and yielding bright Ni were tested also. Bright Ni deposits were less satisfactory. B. Gros

KORECKY, J.

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International Polarographic Congress. 1st, Prague, 1951

Shorník I. Mezinárodní polarografického sjezdu. Díl 3. Hlavní referáty přednesené na sjezdu. Proceedings... Vol. 3. Reviews Read at the Congress. Praha, Přírodovědecký ústav (1952) 774 p. 2,000 copies printed.

Resp. Ed. J. J. Koryta, Doctor; Chief Ed. of Publishing House: Milan Skalník, Doctor; Tech. Ed.: Oldřich Lunka.

PURPOSE: The book is intended for chemists, chemical engineers, and physicists.

COVERAGE: The book is a collection of reviews and original papers read at the International Polarographic Congress held in Prague in 1951. Uses of polarography in organic and inorganic analysis, biochemistry, medicine, and industrial chemistry are discussed. In the section, Reviews Read at the Congress, Russian and other German or English translations of each review are presented. In the section, Original Papers Read at the Congress, only those translations in Russian, German, and English which have not been published in Volume I are presented. The following scientists participated in the opening of the Congress: Professor Viktor Kmla, Dean of the Faculty of Sciences, Warsaw; Doctor Jaromír Dolanský, Minister of Planning; Professor Jaroslav Koryta, Chairman of the Congress; and Professor Jaroslav Koryta, Chairman of the Center for Scientific Research and Technical Development. References follow each paper.

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